

08-23-01

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

|  |   |
|--|---|
| Attorney Docket No.                      | 21220/04089 (GR201SF054)                            |
| First Inventor or Application Identifier | David J. Flynn                                      |
| Title                                    | CCD IMAGE DETECTOR AND METHOD OF OPERATING THE SAME |
| Express Mail Label No.                   | EL085013149US                                       |

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \*Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification Total Pages   
(preferred arrangement set forth below)
- ☒ - Descriptive title of the Invention
- ☒ - Cross References to Related Applications
- ☒ - Statement Regarding Fed sponsored R & D
- ☒ - Reference to Microfiche Appendix
- ☒ - Background of the Invention
- ☒ - Brief Summary of the Invention
- ☒ - Brief Description of the Drawings (if filed)
- ☒ - Detailed Description
- ☒ - Claim(s)
- ☒ - Abstract of the Disclosure
3. ☒ For/Inform Drawing(s) (35 U.S.C. 113) [Total Sheets
4. ☒ Oath or Declaration [Total Pages
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application  
See 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

5. ☐ Microfiche Computer Program (Appendix)
6. ☐ Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

11046 U.S. PTO  
09/938093  
08/23/01**ACCOMPANYING APPLICATION PARTS**

7. ☒ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73 (b) Statement ☐ Power of Attorney
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☐ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \*Small Entity ☐ Statement filed in prior application, Status still proper and desired  
(PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☐ Other: \_\_\_\_\_

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_  
Prior application information: Examiner: \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

**For CONTINUATION or DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**17. CORRESPONDENCE ADDRESS**
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|         |                             |              |     |              |  |
|---------|-----------------------------|--------------|-----|--------------|--|
| Name    | WILLIAM E. ZITELLI (28,551) |              |     | 24024        |  |
| Address | PATENT TRADEMARK OFFICE     |              |     |              |  |
| City    | State                       | Zip Code     |     |              |  |
| Country | Telephone                   | 216-622-8229 | Fax | 216-241-0816 |  |

|                   |                    |                                   |         |
|-------------------|--------------------|-----------------------------------|---------|
| Name (Print/Type) | WILLIAM E. ZITELLI | Registration No. (Attorney/Agent) | 28,551  |
| Signature         | William E. Zitelli | Date                              | 8/23/01 |

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# FEE<sup>1</sup> TRANSMITTAL

## for FY 2001


*Patent fees are subject to annual revision*

PATENT TRADEMARK OFFICE

Complete if Known

|                        |                          |
|------------------------|--------------------------|
| Application Number     | Not Issued               |
| Filing Date            | August 23 2001           |
| First Named Inventor   | David J. Flynn           |
| Examiner Name          | Not Issued               |
| Group Art Unit         | Not Issued               |
| Attorney Docket No.    | 21220/04089 (GR201SF054) |
| Express Mail Label No. | EL085013149US            |

| METHOD OF PAYMENT  |                    |                    |                 |  |                 | FEE CALCULATION (continued)        |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|--|--------------------|--------------------|-----------------|--|-----------------|------------------------------------|-----------------|----------------|-----------------|--|----------|-----|-----|-----|-----|------------------------|----------|-----|-----|-----|-----|-----------------------------------|--|-----|-----|-----|-----|---------------------------------------|--|-----|-----|-----|-----|--|--|-----|-----|-----|----|--|--|---------------------|--|--|--|--|-----------------|---|--|--|--|--|--|--|--------------|--------------------|--------------------|--------------|----------------|----------|----|---------|---------|-------|--|--|---|--------|---------|-------|--|--|--|--|--|--|--|---|
| <b>1.</b> <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:<br><div style="float: right; width: 200px;">Deposit Account Number<br/><b>07-1625</b></div><br><div style="float: right; width: 200px;">Deposit Account Name<br/></div><br><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17<br><input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27   |                    |                    |                 |  |                 | <b>3. ADDITIONAL FEES</b>          |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | Large Fee Code                     | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 105                                | 130             | 205            | 65              | Surcharge - late filing fee or oath  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 127                                | 50              | 227            | 25              | Surcharge - late provisional filing fee or cover sheet                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 139                                | 130             | 139            | 130             | Non-English specification  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 147                                | 2,520           | 147            | 2,520           | For filing a request for <i>ex parte</i> reexamination                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 112                                | 920*            | 112            | 920*            | Requesting publication of SIR prior to Examiner action                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 113                                | 1,840*          | 113            | 1,840*          | Requesting publication of SIR after Examiner action                        |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 115                                | 110             | 215            | 55              | Extension for reply within first month                                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 116                                | 390             | 216            | 195             | Extension for reply within second month                                    |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 117                                | 890             | 217            | 445             | Extension for reply within third month                                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 118                                | 1,390           | 218            | 659             | Extension for reply within fourth month                                    |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 128                                | 1,890           | 228            | 945             | Extension for reply within fifth month                                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 119                                | 310             | 219            | 155             | Notice of Appeal   |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 120                                | 310             | 220            | 155             | Filing a brief in support of an appeal                                     |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 121                                | 270             | 221            | 135             | Request for oral hearing   |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 138                                | 1,510           | 138            | 1,510           | Petition to institute a public use proceeding                              |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 140                                | 110             | 240            | 55              | Petition to revive - unavoidable   |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 141                                | 1,240           | 241            | 620             | Petition to revive - unintentional   |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 142                                | 1,240           | 242            | 620             | Utility issue fee (or reissue)   |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 143                                | 440             | 243            | 220             | Design issue fee   |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 144                                | 600             | 244            | 300             | Plant issue fee  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 122                                | 130             | 122            | 130             | Petitions to the Commissioner  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 123                                | 50              | 123            | 50              | Petitions related to provisional applications                              |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 126                                | 240             | 126            | 240             | Submission of Information Disclosure Stmt                                  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 581                                | 40              | 581            | 40              | Recording each patent assignment per property (times number of properties) |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 146                                | 710             | 246            | 355             | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 149                                | 710             | 249            | 355             | For each additional invention to be examined (37 CFR § 1.129(b))           |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 179                                | 710             | 279            | 355             | Request for Continued Examination (RCE)                                    |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | 169                                | 900             | 169            | 900             | Request for expedited examination of a design application                  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  |                 | Other fee (specify) _____          |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| <b>2. BASIC FILING FEE</b><br><table border="1" style="width: 100%;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101</td> <td>710</td> <td>201</td> <td>355</td> <td>Utility filing fee</td> <td>\$710.00</td> </tr> <tr> <td>106</td> <td>320</td> <td>206</td> <td>160</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>107</td> <td>490</td> <td>207</td> <td>245</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108</td> <td>710</td> <td>208</td> <td>355</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114</td> <td>150</td> <td>214</td> <td>75</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="5"><b>SUBTOTAL (1)</b></td> <td><b>\$710.00</b></td> </tr> </tbody> </table>   |                    |                    |                 |  |                 | Large Fee Code                     | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid | 101 | 710 | 201 | 355 | Utility filing fee     | \$710.00 | 106 | 320 | 206 | 160 | Design filing fee                 |  | 107 | 490 | 207 | 245 | Plant filing fee                      |  | 108 | 710 | 208 | 355 | Reissue filing fee                                 |  | 114 | 150 | 214 | 75 | Provisional filing fee                                     |  | <b>SUBTOTAL (1)</b> |  |  |  |  | <b>\$710.00</b> | <b>2. EXTRA CLAIM FEES</b><br><table border="1" style="width: 100%;"> <thead> <tr> <th>Total Claims</th> <th>Independent Claims</th> <th>Multiple Dependent</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>-20 = 0</td> <td>x 18.00</td> <td>= \$0</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>-3 = 0</td> <td>x 80.00</td> <td>= \$0</td> <td></td> <td></td> </tr> <tr> <td colspan="5"></td> <td>=</td> </tr> </tbody> </table> |  |  |  |  |  |  | Total Claims | Independent Claims | Multiple Dependent | Extra Claims | Fee from below | Fee Paid | 20 | -20 = 0 | x 18.00 | = \$0 |  |  | 2 | -3 = 0 | x 80.00 | = \$0 |  |  |  |  |  |  |  | = |
| Large Fee Code   | Entity Fee (\$)    | Small Fee Code     | Entity Fee (\$) | Fee Description  | Fee Paid        |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 101  | 710                | 201                | 355             | Utility filing fee   | \$710.00        |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 106  | 320                | 206                | 160             | Design filing fee  |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 107  | 490                | 207                | 245             | Plant filing fee   |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 108  | 710                | 208                | 355             | Reissue filing fee   |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 114  | 150                | 214                | 75              | Provisional filing fee                                     |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| <b>SUBTOTAL (1)</b>  |                    |                    |                 |  | <b>\$710.00</b> |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| Total Claims   | Independent Claims | Multiple Dependent | Extra Claims    | Fee from below   | Fee Paid        |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 20   | -20 = 0            | x 18.00            | = \$0           |  |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 2  | -3 = 0             | x 80.00            | = \$0           |  |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
|  |                    |                    |                 |  | =               |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| <table border="1" style="width: 100%;"> <thead> <tr> <th>Large Entity Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>103</td> <td>18</td> <td>203</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>102</td> <td>80</td> <td>202</td> <td>40</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>104</td> <td>270</td> <td>204</td> <td>135</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>109</td> <td>80</td> <td>209</td> <td>40</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>110</td> <td>18</td> <td>210</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> <tr> <td colspan="5"><b>SUBTOTAL (2)</b></td> <td><b>\$0</b></td> </tr> </tbody> </table> |                    |                    |                 |  |                 | Large Entity Code                  | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid | 103 | 18  | 203 | 9   | Claims in excess of 20 |          | 102 | 80  | 202 | 40  | Independent claims in excess of 3 |  | 104 | 270 | 204 | 135 | Multiple dependent claim, if not paid |  | 109 | 80  | 209 | 40  | ** Reissue independent claims over original patent |  | 110 | 18  | 210 | 9  | ** Reissue claims in excess of 20 and over original patent |  | <b>SUBTOTAL (2)</b> |  |  |  |  | <b>\$0</b>      | <b>SUBTOTAL (3)</b> \$  |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| Large Entity Code  | Entity Fee (\$)    | Small Fee Code     | Entity Fee (\$) | Fee Description  | Fee Paid        |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 103  | 18                 | 203                | 9               | Claims in excess of 20                                     |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 102  | 80                 | 202                | 40              | Independent claims in excess of 3                          |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 104  | 270                | 204                | 135             | Multiple dependent claim, if not paid                      |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 109  | 80                 | 209                | 40              | ** Reissue independent claims over original patent         |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| 110  | 18                 | 210                | 9               | ** Reissue claims in excess of 20 and over original patent |                 |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| <b>SUBTOTAL (2)</b>  |                    |                    |                 |  | <b>\$0</b>      |                                    |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |
| ** or number previously paid, if greater, For Reissue, see above   |                    |                    |                 |  |                 | * Reduced by Basic Filing Fee Paid |                 |                |                 |  |          |     |     |     |     |                        |          |     |     |     |     |                                   |  |     |     |     |     |                                       |  |     |     |     |     |  |  |     |     |     |    |  |  |                     |  |  |  |  |                 |   |  |  |  |  |  |  |              |                    |                    |              |                |          |    |         |         |       |  |  |   |        |         |       |  |  |  |  |  |  |  |   |

|                          |   |  |        |                                 |                 |
|--------------------------|---|--|--------|---------------------------------|-----------------|
| <b>SUBMITTED BY</b>      |   |  |        | <i>Complete (if applicable)</i> |                 |
| <i>Name (Print/Type)</i> | William E. Zitelli  | <i>Registration No.<br/>(Attorney/Agent)</i> | 28,551 | <i>Telephone</i>                | 216/622.8229    |
| <i>Signature</i>         |  |  |        | <i>Date</i>                     | August 23, 2001 |

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